

Abstract of the Disclosure

The present invention generally relates to a self-refresh device and method, and more specifically, to a PASR
5 (Partial Array Self-Refresh) device and method for selectively performing a refresh operation on a cell array requiring a refresh in a self-refresh mode. According to the present invention, a selective refresh operation is performed on a cell array requiring a refresh by setting
10 the self-refresh information as an EMRS (Extended Mode Register Set) code and selectively activating a cell array in response to a bank selection address. Here, a refresh operation is not performed on a cell array which does not require a refresh in a self-refresh mode. Accordingly, the
15 power consumption of a memory can be considerably reduced, and noise can be also decreased by reducing peak operation current.